

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-19. (cancelled)

20. (new) A glow plug body, comprising:

a substantially circular cylindrical tubular portion, wherein an inner lateral wall of a first end of the tubular portion i) forms a cavity (100) and ii) has a longitudinal groove.

21. (new) The glow plug body according to claim 20, further comprising:

a gripping zone on an outer lateral wall of the first end of the tubular portion, the outer lateral wall having a hexagonal cross-section defining six facets,

wherein a depth of the longitudinal groove extends from the inner lateral wall through the outer wall to define a longitudinal slot in one of the six facets.

22. (new) The glow plug body according to claim 21,

wherein the longitudinal slot extends across the entire width of the one of the six facets of the gripping zone.

23. (new) A glow plug (1), comprising:

a substantially circular cylindrical tubular body with an inner lateral wall of a first end i) forming a cavity (100) and ii) having a longitudinal groove;

a pressure sensor (90) mounted in said tubular body, configured to measure the internal pressure of a cylinder of an engine in which the glow plug (1) is accommodated; and

connecting tabs (72a, 76a) attached to the pressure sensor and extending substantially longitudinally with respect to an axis running along a length of the tubular body,

wherein at least one of the connecting tabs fit in the longitudinal groove.

24. (new) The glow plug (1) according to claim 23, wherein a depth of the longitudinal groove extends from the inner lateral wall of the first end and pierces through an outer wall of the first end to define a longitudinal slot in the tubular body (10).

25. (new) The glow plug (1) according to claim 24, wherein,

the body (10) has adjacent to the pressure sensor an outer cylindrical surface with a hexagonal cross-section defining six facets, and

the longitudinal slot opens entirely in one of the six facets.

26. (new) The glow plug (1) according to claim 25, wherein a width of the longitudinal slot corresponds to a width of the one of the six facets.

27. (new) The glow plug (1) according to claim 23, wherein the pressure sensor (90) is a piezoelectric sensor comprising a piezoelectric member (74) arranged between two contact members (72, 76).

28. (new) The glow plug (1) according to claim 25, wherein the pressure sensor (90) is a piezoelectric sensor comprising a piezoelectric member (74) arranged between two contact members (72, 76).

29. (new) The glow plug (1) according to claim 27, wherein,

each connecting tab and respective contact member are formed as a single part, and

each connecting tab (72a, 76a) extends as a bent form from the respective contact member (72, 76).

30. (new) The glow plug (1) according to claim 28, wherein,

each connecting tab and respective contact member are formed as a single part, and

each connecting tab (72a, 76a) extends as a bent form from the respective contact member (72, 76).

31. (new) An internal combustion engine, comprising:  
a cylinder; and

a glow plug (1) installed to measure an internal pressure of the cylinder, the glow plug including a substantially circular cylindrical tubular body with an inner lateral wall of a first end i) forming a cavity (100) and ii) having a longitudinal groove,

a pressure sensor (90) mounted in said tubular body and configured to measure the internal pressure of the cylinder, and

connecting tabs (72a, 76a) attached to the pressure sensor and extending substantially longitudinally with respect to an axis running along a length of the tubular body,

wherein at least one of the connecting tabs fits in the longitudinal groove.

32. (new) The internal combustion engine according to claim 31, wherein a depth of the longitudinal groove extends from the inner lateral wall of the first end and pierces through an

outer wall of the first end to define a longitudinal slot in the tubular body (10).

33. (new) The internal combustion engine according to claim 32, wherein,

the body (10) has adjacent to the pressure sensor an outer cylindrical surface with a hexagonal cross-section defining six facets, and

the longitudinal slot opens entirely in one of the six facets.

34. (new) The internal combustion engine according to claim 33, wherein a width of the longitudinal slot corresponds to a width of the one of the six facets.

35. (new) The internal combustion engine according to claim 31, wherein the pressure sensor (90) is a piezoelectric sensor comprising a piezoelectric member (74) arranged between two contact members (72, 76).

36. (new) The internal combustion engine according to claim 33, wherein the pressure sensor (90) is a piezoelectric sensor comprising a piezoelectric member (74) arranged between two contact members (72, 76).

37. (new) The internal combustion engine according to claim 35, wherein,

each connecting tab and respective contact member are formed as a single part, and

each connecting tab (72a, 76a) extends as a bent form from the respective contact member (72, 76).

38. (new) The internal combustion engine according to claim 36, wherein,

each connecting tab and respective contact member are formed as a single part, and

each connecting tab (72a, 76a) extends as a bent form from the respective contact member (72, 76).